

10/722,032

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(FILE 'HOME' ENTERED AT 11:32:49 ON 11 MAY 2005)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 11:34:05 ON
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L1 184 S ARRAY AND CHAMBERS AND FLOW CELLS
L2 141 S L1 AND SUPPORT
L3 96 S L2 AND INLET
L4 92 S L3 AND OUTLET
L5 77 S L4 AND CHEMICAL
L6 18 S L5 AND SUPPORT? (6A) CHAMBER?
L7 18 DUP REM L6 (0 DUPLICATES REMOVED)

=> s 15 and array (15a) polymer?
L8 6 L5 AND ARRAY (15A) POLYMER?

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9 6 DUP REM L8 (0 DUPLICATES REMOVED)

=> d 19 bib abs 1-6

L9 ANSWER 1 OF 6 USPATFULL on STN
AN 2004:165271 USPATFULL
TI Method and apparatus for synthesis of arrays of DNA probes
IN Cerrina, Francesco, Madison, WI, UNITED STATES
PI US 2004126757 A1 20040701
AI US 2002-62967 A1 20020131 (10)
DT Utility
FS APPLICATION
LREP QUARLES & BRADY LLP, 411 E. WISCONSIN AVENUE, SUITE 2040, MILWAUKEE, WI,
53202-4497
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN 17 Drawing Page(s)
LN.CNT 916
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides an apparatus and method for constructing arrays of DNA sequences using the image of a micromirror **array** projected on a reaction site using projection optics where the projection optics have insufficient resolution to fully resolve the separation between mirrors of the mirror **array**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 6 USPATFULL on STN
AN 2004:138760 USPATFULL
TI Substrate preparation process
IN Goldberg, Martin, Saratoga, CA, UNITED STATES
Diggelman, Martin, Nierdorf, SWITZERLAND
Hubbell, Earl, Mountain View, CA, UNITED STATES
McGall, Glenn, San Jose, CA, UNITED STATES
Ngo, Nam Quoc, Campbell, CA, UNITED STATES
Morris, MacDonald, Felton, CA, UNITED STATES
Yamamoto, Mel, Fremont, CA, UNITED STATES
Tan, Jennifer, Newark, CA, UNITED STATES
Rava, Richard P., Redwood City, CA, UNITED STATES
PA Affymetrix, Inc., Santa Clara, CA, UNITED STATES, 95051 (U.S.
corporation)
PI US 2004105932 A1 20040603
AI US 2003-722032 A1 20031125 (10)
RLI Continuation of Ser. No. US 2000-716507, filed on 20 Nov 2000, GRANTED,
Pat. No. US 6706875 Continuation of Ser. No. US 1999-244568, filed on 4
Feb 1999, GRANTED, Pat. No. US 6307042 Continuation of Ser. No. US
1996-634053, filed on 17 Apr 1996, GRANTED, Pat. No. US 5959098
DT Utility

FS APPLICATION
LREP BANNER & WITCOFF LTD., ATTORNEYS FOR AFFYMETRIX, 1001 G STREET , N.W.,
ELEVENTH FLOOR, WASHINGTON, DC, 20001-4597
CLMN Number of Claims: 49
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 2233

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each **array** includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 6 USPATFULL on STN
AN 2004:66011 USPATFULL
TI Substrate preparation process
IN Goldberg, Martin, San Jose, CA, United States
Diggelman, Martin, Arlesheim, SWITZERLAND
Hubbell, Earl, Mountain View, CA, United States
McGall, Glenn, Mountain View, CA, United States
Ngo, Nam Quoc, Campbell, CA, United States
Morris, MacDonald, San Jose, CA, United States
Yamamoto, Mel, Fremont, CA, United States
Tan, Jennifer, Newark, CA, United States
Rava, Richard P., San Jose, CA, United States
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)
PI US 6706875 B1 20040316
AI US 2000-716507 20001120 (9)
RLI Continuation of Ser. No. US 1999-244568, filed on 4 Feb 1999, now patented, Pat. No. US 6307042 Continuation of Ser. No. US 1996-634053, filed on 17 Apr 1996, now patented, Pat. No. US 5959098

DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Banner & Witcoff, Ltd.
CLMN Number of Claims: 52
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2189

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each **array** includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 6 USPATFULL on STN
AN 2003:172874 USPATFULL
TI Chambers for storing arrays
IN Hilson, Richard O., Sunnyvale, CA, UNITED STATES
Peck, Bill J., Mountain View, CA, UNITED STATES
Leproust, Eric M., Campbell, CA, UNITED STATES
PI US 2003118718 A1 20030626
US 6858186 B2 20050222
AI US 2001-35907 A1 20011224 (10)
DT Utility
FS APPLICATION
LREP AGILENT TECHNOLOGIES, INC., Legal Department, DL429, Intellectual Property Administration, P. O. Box 7599, Loveland, CO, 80537-0599
CLMN Number of Claims: 39
ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)

LN.CNT 1513

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Apparatus and methods are disclosed for storing a plurality of supports having a plurality of **chemical** compounds bound to the surfaces of the supports. In the apparatus, a mechanism for diffusively introducing pressurized gas into the apparatus is in fluid communication with an **outlet** element comprising a plurality of openings. A holding chamber for the supports is in fluid communication with the **outlet** element. The **outlet** element and the holding chamber are disposed such that gas flow through the chamber is substantially uniform and unidirectional. The holding chamber comprises an opening sufficient to permit movement of the supports to and from the holding chamber and comprises a plurality of holding elements for holding the supports.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 6 USPATFULL on STN

AN 2001:185473 USPATFULL

TI Substrate preparation process

IN Goldberg, Martin, San Jose, CA, United States

Diggelman, Martin, Arlesheim, Switzerland

Hubbell, Earl, Mountain View, CA, United States

McGall, Glenn, Mountain View, CA, United States

Ngo, Nam Quoc, Campbell, CA, United States

Morris, MacDonald, San Jose, CA, United States

Yamamoto, Mel, Fremont, CA, United States

Tan, Jennifer, Newark, CA, United States

Rava, Richard P., San Jose, CA, United States

PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)

PI US 6307042 B1 20011023

AI US 1999-244568 19990204 (9)

RLI Continuation of Ser. No. US 1996-634053, filed on 17 Apr 1996, now patented, Pat. No. US 5959098

DT Utility

FS GRANTED

EXNAM Primary Examiner: Riley, Jezia

LREP Banner & Witcoff, Ltd.

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

DRWN 22 Drawing Figure(s); 20 Drawing Page(s)

LN.CNT 2059

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each array includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 6 USPATFULL on STN

AN 1999:117669 USPATFULL

TI Substrate preparation process

IN Goldberg, Martin, San Jose, CA, United States

Diggelman, Martin, Arlesheim, Switzerland

Hubbell, Earl, Mountain View, CA, United States

McGall, Glenn, Mountain View, CA, United States

Ngo, Nam Quoc, Campbell, CA, United States

Morris, Macdonald, San Jose, CA, United States

Yamamoto, Mel, Fremont, CA, United States

Tan, Jennifer, Newark, CA, United States

Rava, Richard P., San Jose, CA, United States

PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)

PI US 5959098 19990928

AI US 1996-634053 19960417 (8)

DT Utility
FS Granted
EXNAM Primary Examiner: Fredman, Jeffrey
LREP Townsend & Townsend & Crew
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2111

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each array includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L4 92 S L3 AND OUTLET
L5 77 S L4 AND CHEMICAL
L6 18 S L5 AND SUPPORT? (6A) CHAMBER?
L7 18 DUP REM L6 (0 DUPLICATES REMOVED)
L8 6 S L5 AND ARRAY (15A) POLYMER?
L9 6 DUP REM L8 (0 DUPLICATES REMOVED)

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L3 96 S L2 AND INLET
L4 92 S L3 AND OUTLET
L5 77 S L4 AND CHEMICAL
L6 18 S L5 AND SUPPORT? (6A) CHAMBER?
L7 18 DUP REM L6 (0 DUPLICATES REMOVED)
L8 6 S L5 AND ARRAY (15A) POLYMER?
L9 6 DUP REM L8 (0 DUPLICATES REMOVED)
L10 166 S L1 NOT L7
L11 161 S L10 NOT L9
L12 161 DUP REM L11 (0 DUPLICATES REMOVED)
L13 135 S L12 AND (STRIP OR PLATE OR FLAT GLASS)
L14 135 S L13 AND CHEMICAL?
L15 87 S L14 AND SYNTHESI?
L16 54 S L15 AND INLET
L17 53 S L16 AND OUTLET
L18 53 S L17 AND STEP?
L19 49 S L1 AND SYNTHES? (4A) ARRAY?
L20 71558 S ARRAY AND CHAMBER?
L21 1160 S L20 AND FLOW CELL?
L22 854 S L21 AND SUPPORT
L23 514 S L22 AND INLET?
L24 371 S L23 AND OUTLET
L25 115 S L24 AND SYNTHES? (3A) ARRAY
L26 62 S L25 AND MOUNT?
L27 62 DUP REM L26 (0 DUPLICATES REMOVED)
L28 62 S L27 NOT L18
L29 43 S L28 AND DROP?

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